

0004284000

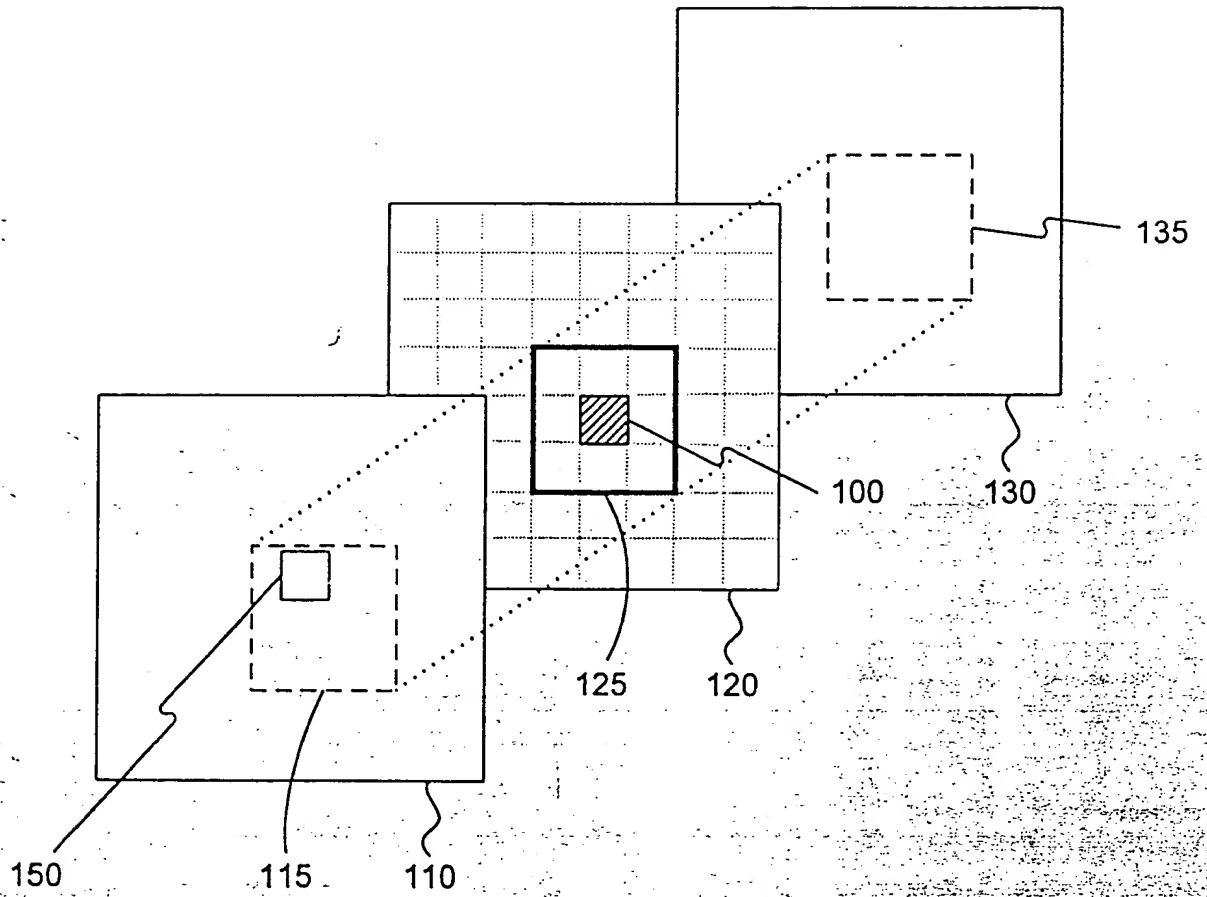


FIG. 1

Diagram illustrating a mapping between two grids. A source grid 210 (N x M) contains a point (x, y) and a shaded region 240. A target grid 225 contains a corresponding point (x, y) and a shaded region 240. A line connects the points (x, y) in both grids. The source grid 210 also shows points (x-8, y-8), (x+8, y-8), (x-8, y+8), and (x+8, y+8) relative to the shaded region.

FIG. 2

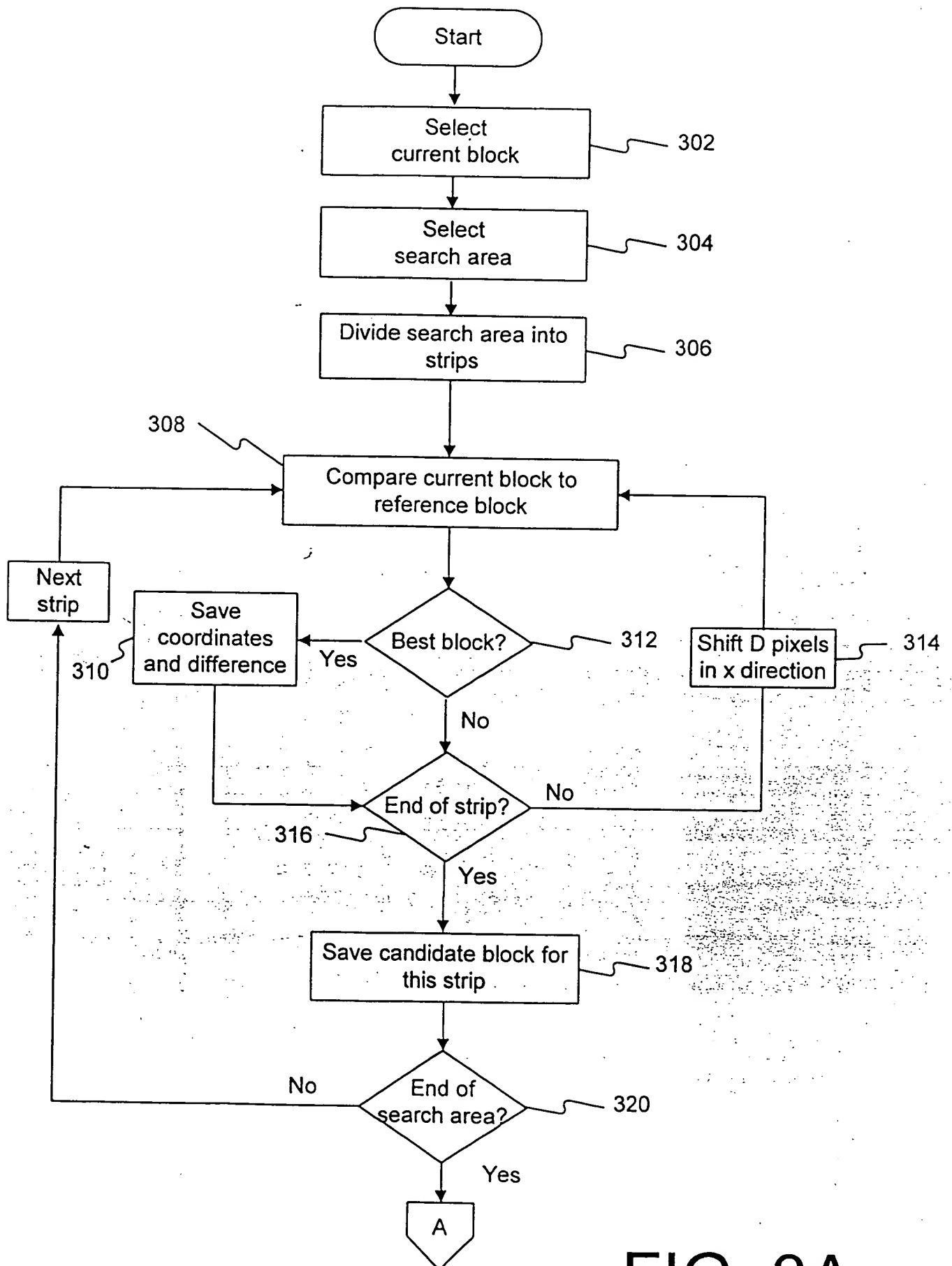


FIG. 3A

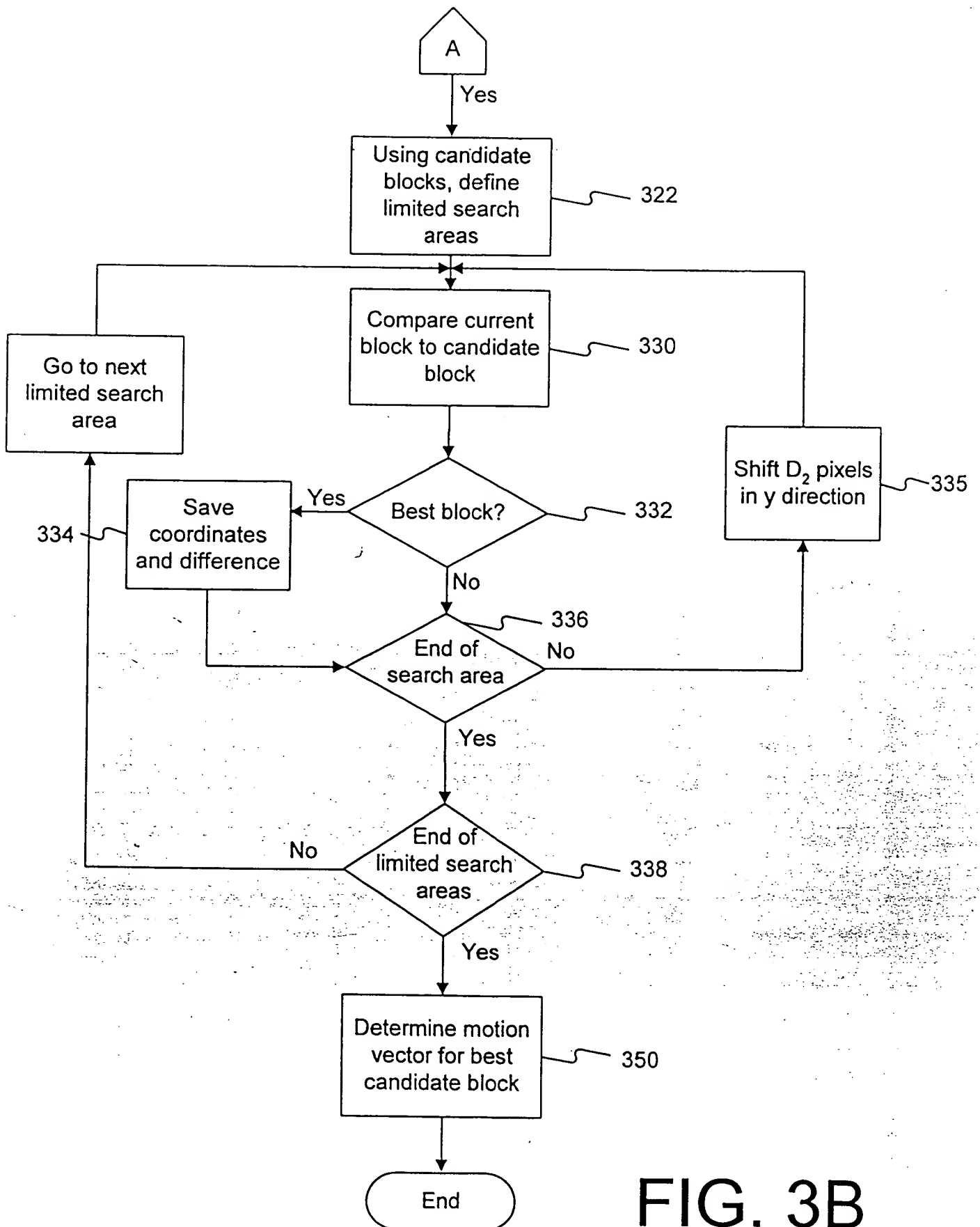


FIG. 3B

215

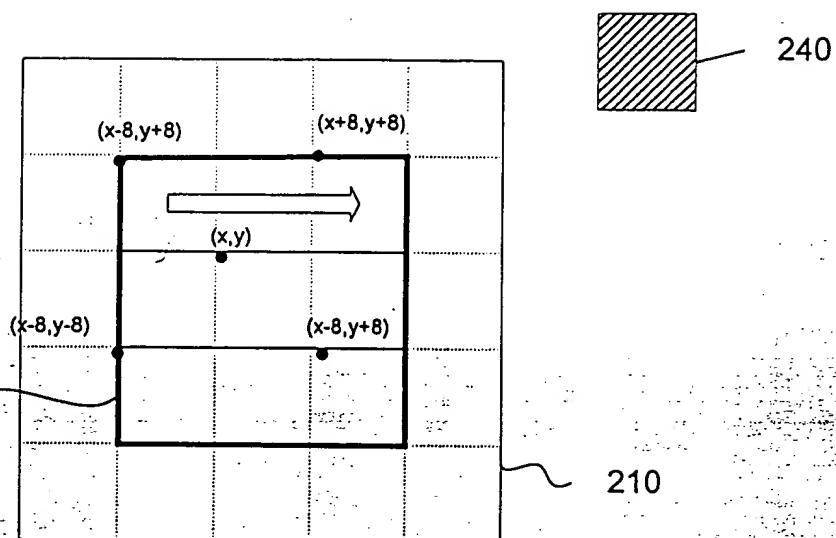


FIG. 4

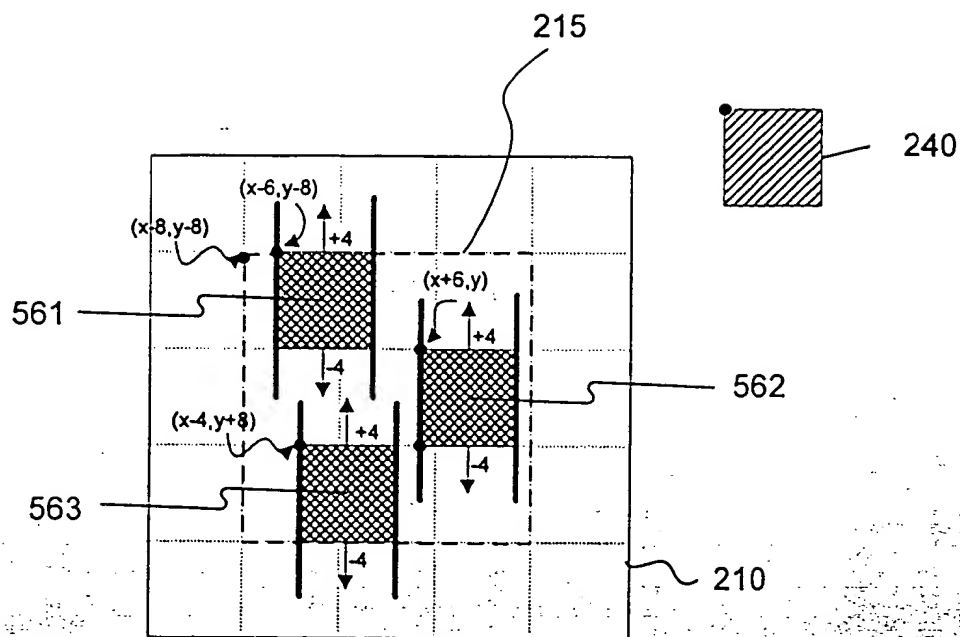


FIG. 5

$$\sum_{j=0}^7 P_{0,j} \quad \sum_{j=0}^7 P_{1,j} \quad \sum_{j=0}^7 P_{2,j} \quad \dots \quad \sum_{j=0}^7 P_{7,j}$$

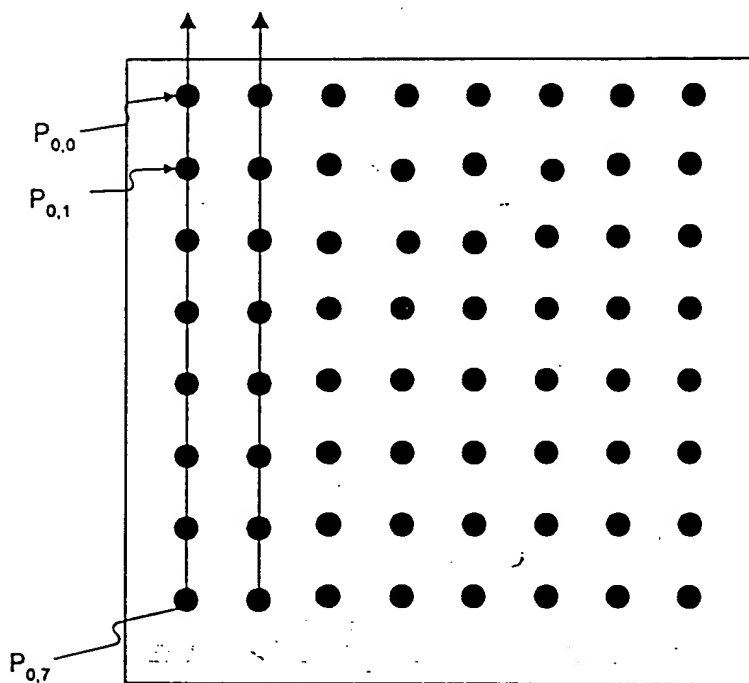
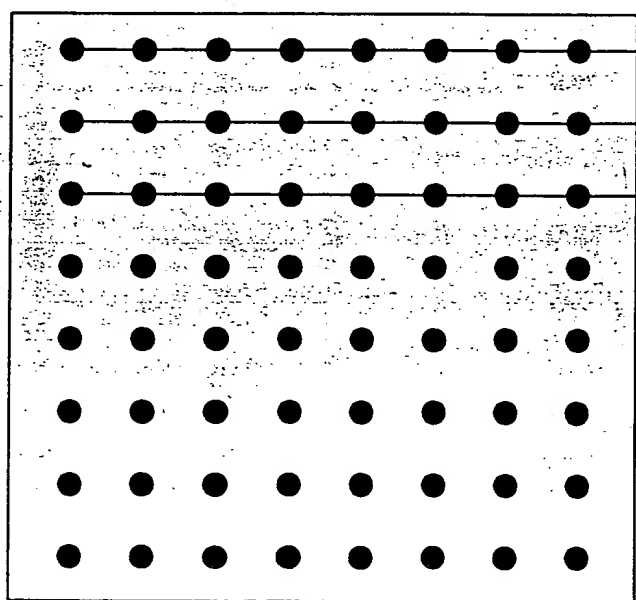


FIG. 6A
Vertical
Integral
Projection



$$\begin{array}{l} \sum_{i=0}^7 P_{i,0} \\ \sum_{i=0}^7 P_{i,1} \\ \vdots \\ \sum_{i=0}^7 P_{i,7} \end{array}$$

FIG. 6B
Horizontal
Integral
Projection

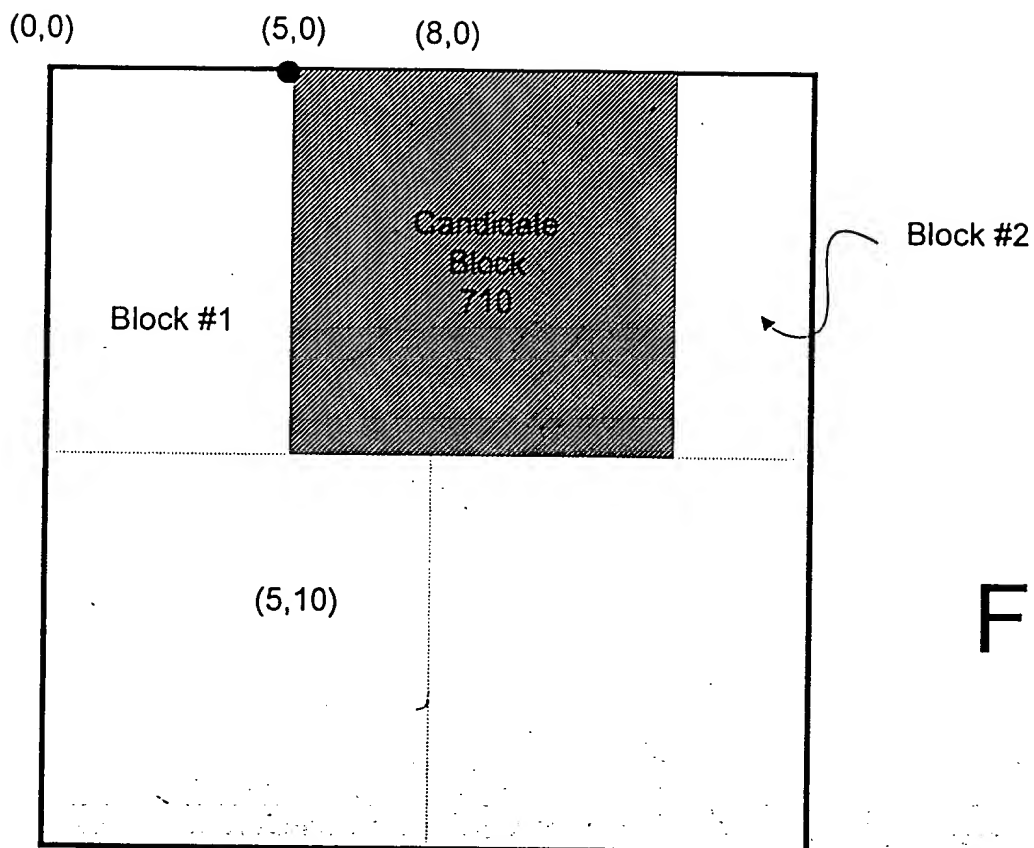


FIG. 7

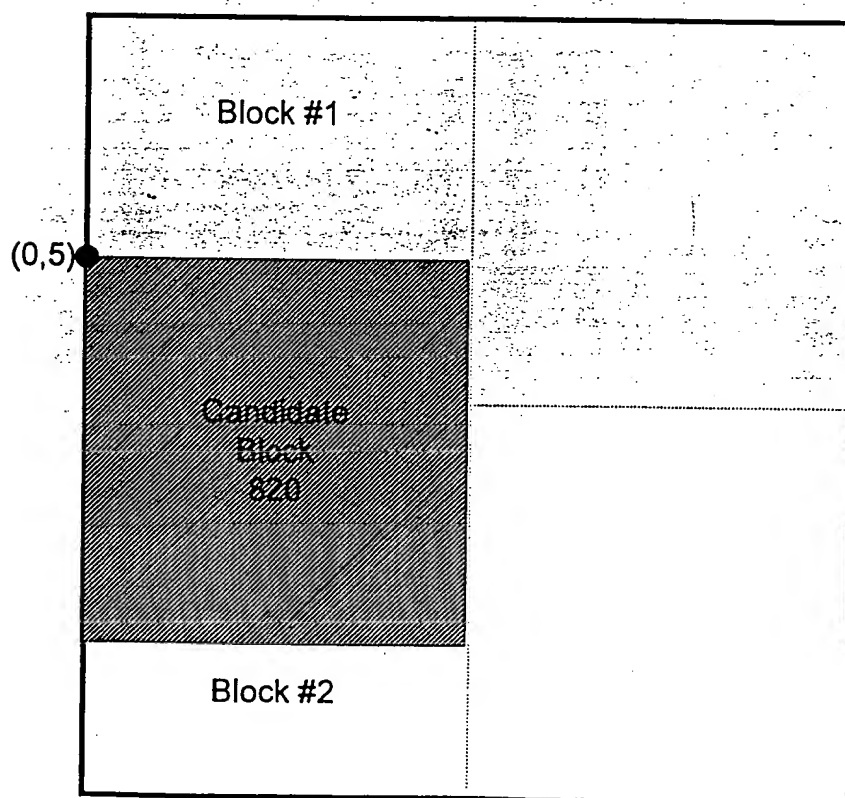


FIG. 8

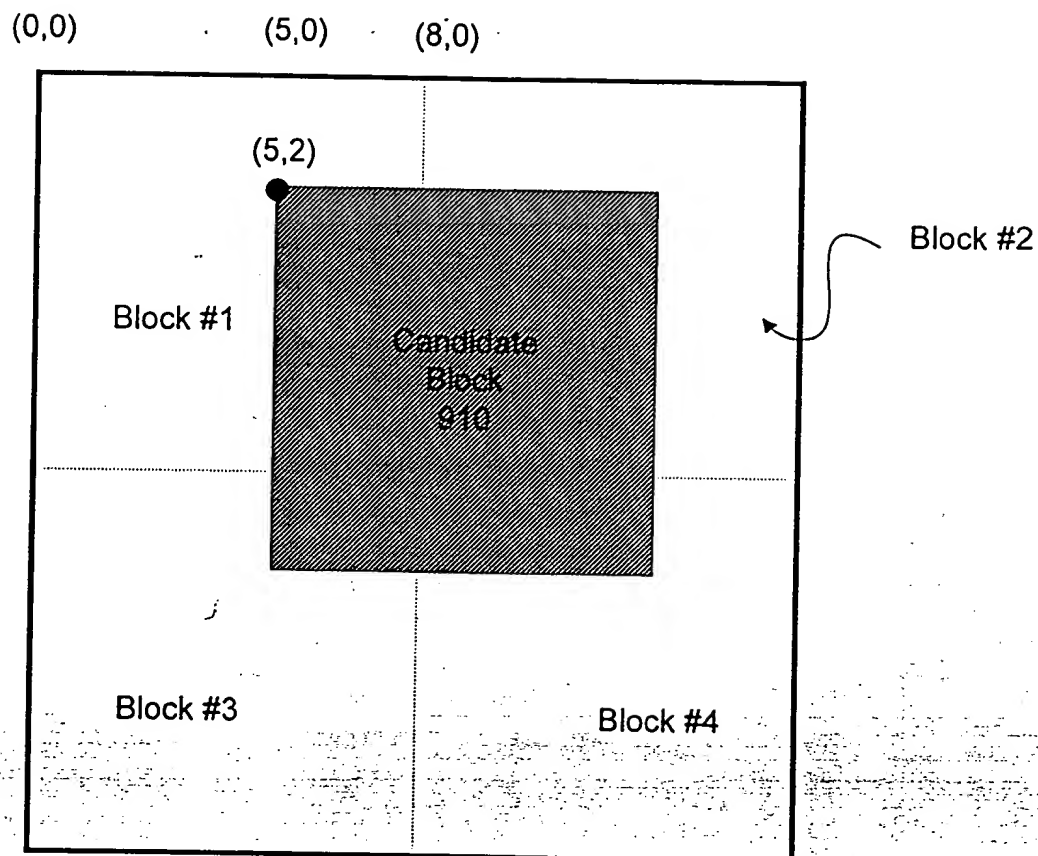


FIG. 9

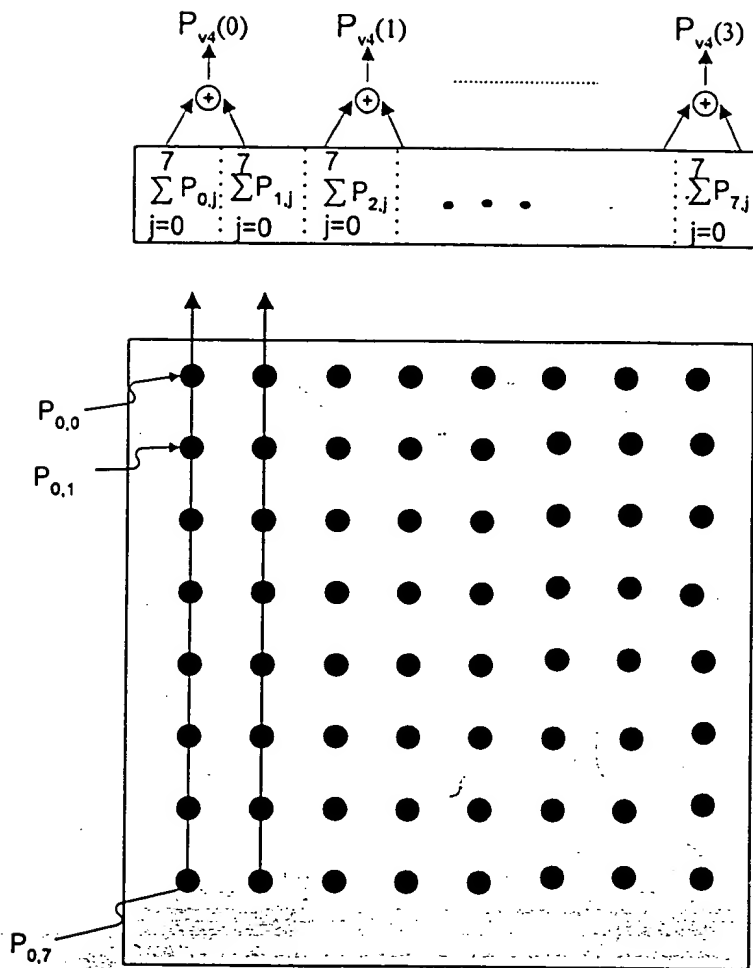


FIG. 10A

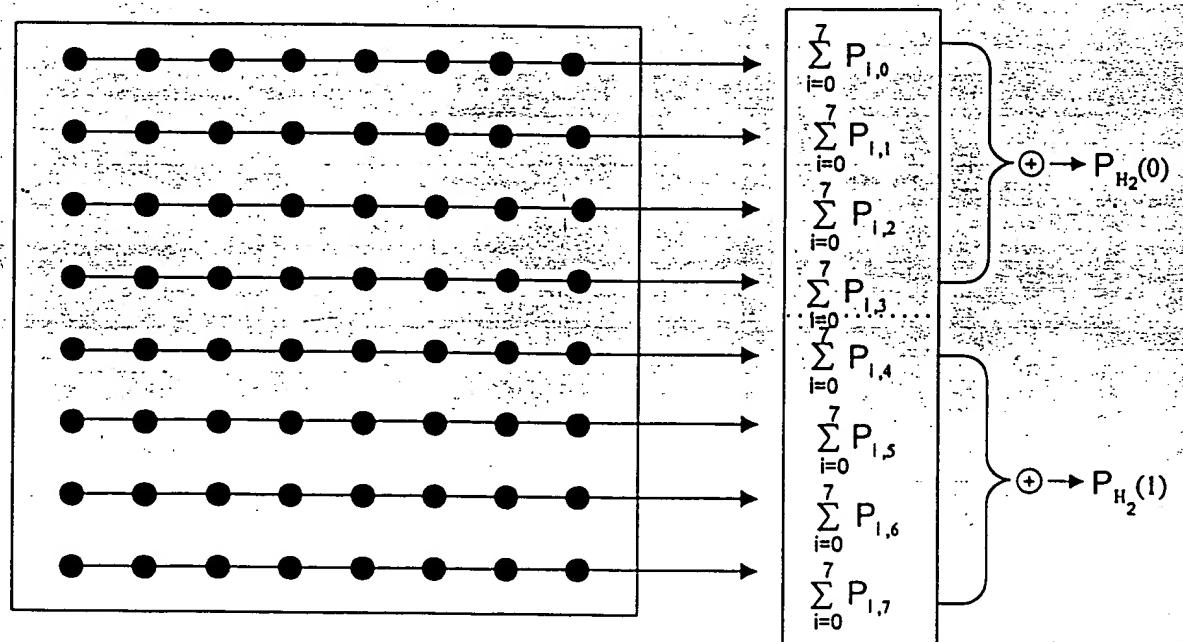
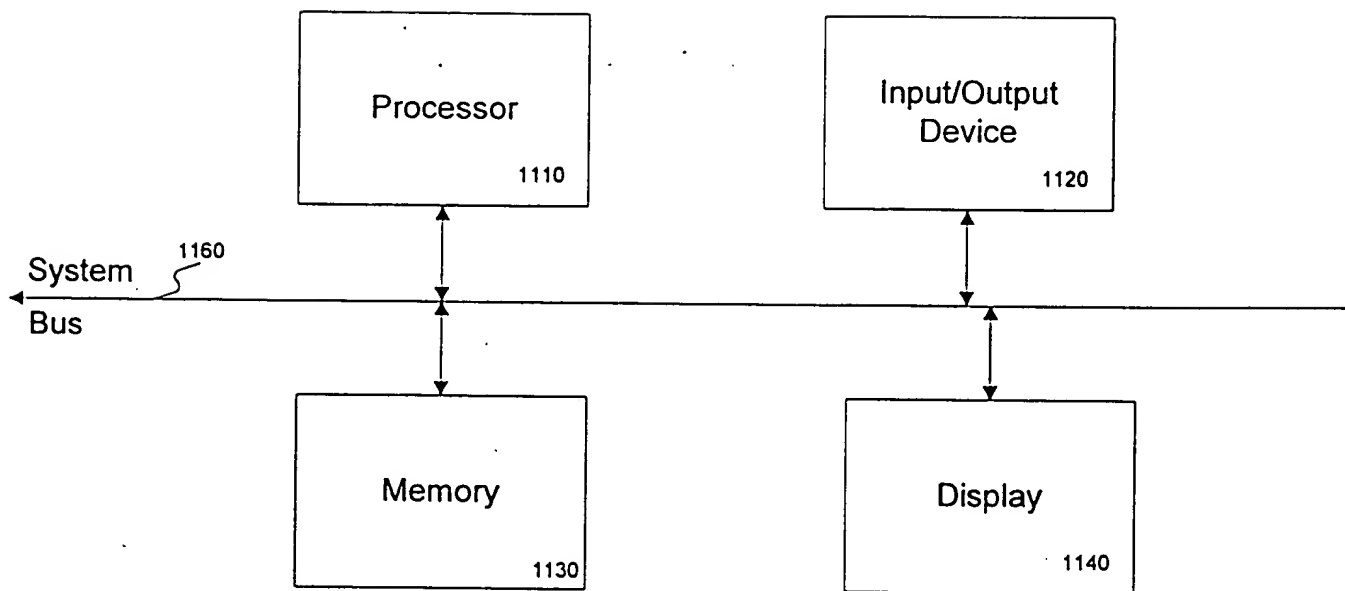


FIG. 10B



1105

FIG. 11

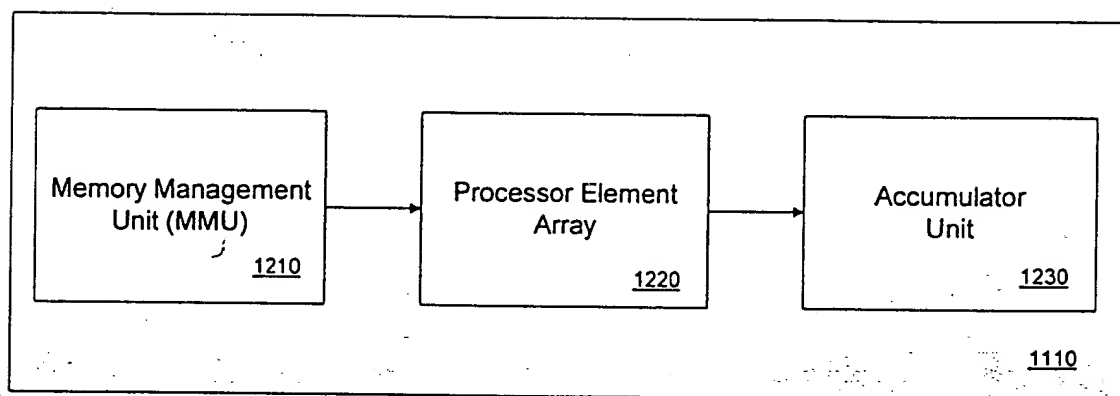


FIG. 12